

Claims

1. Purified recombinant glycoprotein which satisfies the following properties:
- 5 a) a capacity for adhesion to CD4;
b) an affinity with an anti-gp120 antibody capable of neutralizing HIV infection of cells, *in vitro*;
c) an affinity with an anti-gp41 antibody;
- 10 d) a trimeric form lacking interchain disulphide bridges.
2. Glycoprotein according to Claim 1, characterized in that the glycoprotein is composed of all or part of gp160.
- 15 3. Glycoprotein according to Claim 1, characterized in that it comprises less than 50% of other protein contaminants.
4. Glycoprotein according to Claim 1, characterized in that the capacity for adhesion to CD4
- 20 is at least identical to that of a gp120 of an infectious HIV.
5. Vaccine comprising the purified glycoprotein according to Claim 1, and an adjuvant.
6. Vaccine according to Claim 4, characterized in
- 25 that it contains, as an HIV surface antigen, only the glycoprotein according to Claim 1.
7. Method for obtaining a glycoprotein according to Claim 1, in which, by means of genetic recombination techniques, a glycoprotein satisfying the properties
- 30 a), b) and c) set out in Claim 1 is expressed, purified and subjected to steps involving at least one reducing agent, one ionic detergent and/or one neutral detergent, under conditions such that a glycoprotein satisfying the conditions set out in Claim 1 is
- 35 obtained.
8. Method according to Claim 7, characterized in that the purified glycoprotein is subjected successively to a reducing agent, to an alkylating

agent, to an oxidizing agent, to an ionic detergent and to dialysis against a neutral detergent.

9. Method according to Claim 7, characterized in that the purified glycoprotein is subjected
5 successively to an ionic detergent, to a reducing agent, to an oxidizing agent and to dialysis against a neutral detergent.

10. Use of the glycoprotein according to Claim 1 in the implementation of a method for diagnosing, in
10 vitro, infections caused by HIV.

add
a1

add B7

add B2
Abstract